

Author Index

- Alcudia, F. C5
Altmann, F. 221
Alvarez, A.P. 303

Baer, H.H. 129
Barbero, G.J. 179
Binderup, L. 141
Birlirakis, N. C1
Bock, K. 115
Bols, M. 141
Browder, I.W. 247
Brownsey, G.J. 23

Cairns, P. 23
Christensen, M.K. 115
Clamp, J.R. C9
Coleman III, W.M. 41
Corfield, A.P. C9

De Bruin, A.H. 199
De Bruyn, A. 303
De Leenheer, L. 303
Dzúrová, M. 269

Ensley, H.E. 247
Espartero, J.L. C5

Friebolin, H. 259
Furneaux, R.H. 15

Gayer, D.A. 179
Grignon-Dubois, M. 281
Guard, H.E. 41

Hackland, P.L. 211
Hansen, J. 141
Hård, K. 53
Hasegawa, A. C13
Heinrichová, K. 269
Hermansson, K. 69
Hofinger, A. 221, 231
Hollosi, M. 83
Horváth, K. 1

Isac García, J. 129

Jansson, P.-E. 69
Jones, E.L. 247

Kenne, L. 69
King, K.R. C9
Kiso, M. C13
Knirel, Y.A. C19
Kochetkov, N.K. C19
Kong, F. 163
König, M. 259

Lacourt-Gadras, B. 281
Laczko, I. 83
Landrum, D.C. 179
Lang, E. 83
Latová, E. 289
Li, G. 163
Lindh, F. 69
Liu, J. 1
Lu, D. 163
Ludwig, H. 259

Maeda, M. 309
Mawhinney, T.P. 179
McNamee, R.B. 247
Meldal, M. 115
Miles, M.J. 23
Miyano, H. 29
Morgan, K.R. 15
Morris, V.J. 23
Mronga, S. 259
Murakata, C. 95

Nagahama, T. C13
Nakagawa, R. 29
Nishiya, T. 239
Nitsch, E. 221

Ogawa, T. 95
Otvos, Jr., L. 83

- Paramonov, N.A. C19
Parolis, H. 199, 211
Parolis, L.A.S. 199
Perly, B. C1
Petruš, L. 289
Plewe, M. 151
Pozsgay, V. 295
Praznik, W. 221, 231
Pretus, H.A. 247
- Rasmussen, P. 141
Rexová-Benková, L. 269
Rezzonico, B. 281
Ridout, M.J. 23
Robibo, D. 239
Ross, M.M. 41
- Sandhoff, K. 151
Sandra, P. 303
Santoyo González, F. 129
Schmidt, R.R. 151
Shashkov, A.S. C19
Shen, Y. 129
Sidorczyk, Z. C19
Spies, T. 221, 231
- Stanley, R.A. 15
Suzuki, E.-i. 29
Swierzko, A. C19
- Takeshita, M. 309
- Uehara, T. 309
Urge, L. 83
Uryu, T. 29
- Van Kuik, J.A. 53
Vargas Berenguel, A. 129
Vega-Pérez, J.M. C5
Vinogradov, E.V. C19
Vliegenthart, J.F.G. 53
- Wajda, R. 259
Waterhouse, A.L. 1
Widmalm, G. 69
Williams, D.L. 247
Williams, J.M. C9
Winter, W.T. 23
Wroblewski, K. 83
Wu, X. 163
Wutka, R. 221

SUBJECT INDEX

- N*-Acetylisomuramic acid, structure of the O-specific polysaccharide of *Proteus penneri* 62 containing, C19
- N*-Acetyl-lactosamine, synthesis via ozonolysis of a nitro derivative, 289
- N*-Alkyl- and *N,N*-dialkyl- α -D-glucosamines, a new method for synthesis of, C5
- Analysis, quantitative, of carboxymethyl chitin on a liposome surface, 239
- 2,3-Anhydro- α -D-manno- and -allopyranoside, methyl *O-p*-bromobenzyl, synthesis, crystalline structure, conformational analysis, and azidolysis, 163
- Anticoagulant-active arabinan sulfates from the green alga, *Codium latum*, studies on, 309
- Antigen of *Escherichia coli* serotype O8: K102:H⁻, structure of the capsular, 199
- Arabinan sulfates from the green alga, *Codium latum*, studies of anticoagulant-active, 309
- Aranciamycinone (the aglycon of the naturally occurring antibiotic aranciamycin), synthesis and collagenase inhibition of new glycosides of, 141
- Asparagines (glycosylated, Fmoc-protected) potentially useful as reagents in the solid-phase synthesis of *N*-glycopeptides, 83
- Biological response modifier derived from *Saccharomyces cerevisiae*, development of a water-soluble, sulfated (1 → 3)- β -D-glucan, 247
- Capsular antigen of *Escherichia coli* serotype O8:K102:H⁻, the structure of the, 199
- Capsular polysaccharide of *Escherichia coli* O9:K35:H⁻, structure of, 211
- Carboxymethyl chitin on a liposome surface, quantitative analysis of, 239
- Chitin, carboxymethyl, on a liposome surface, quantitative analysis of, 239
- Chitosan and chitosan gels, X-ray fibre diffraction studies, 23
- Collagenase inhibition of new glycosides of aranciamycinone (the aglycon of the naturally occurring antibiotic aranciamycin), synthesis and, 141
- Complex carbohydrates, a ¹H NMR database computer program for the analysis of the primary structure of, 53
- Computer program CASPER, a ¹H and ¹³C NMR study of oligosaccharides from human milk and application of the, 69
- Computer program for the analysis of the primary structure of complex carbohydrates, a ¹H NMR database, 53
- Conformational analysis of β -D-fructofuranosyl-(2 → 6)- β -D-glucopyranoside by molecular mechanics, 1
- ¹³C CP MAS NMR spectroscopy of the transformations of wheat starch associated with the making and staling of bread, observation by, 15
- Curdlan sulfate, analysis of residue types by NMR, 29
- Cycloheptaose consisting of (1 → 4)-linked 7-amino-6,7-dideoxy- α -D-glucosyl heptopyranosyl units: A new analog of cyclomaltoheptaose, synthesis of a, 129
- Cyclomaltoheptaose, synthesis of a cycloheptaose consisting of (1 → 4)-linked 7-amino-6,7-dideoxy- α -D-glucosyl heptopyranosyl units: A new analog of, 129
- Diffraction studies of chitosan and chitosan gels, X-ray fibre, 23
- Disaccharides of D-glucose, use of ¹H NMR spectroscopy to determine the rate of enzymic hydrolysis of, 259
- Enzymic hydrolysis of disaccharides, use of ¹H NMR spectroscopy to determine the rate of, 259
- Escherichia coli* O9:K35:H⁻, structure of the capsular polysaccharide of, 211
- Escherichia coli* serotype O8:K102:H⁻, the structure of the capsular antigen of, 199

- Fructan (sinistrin) from *Urginea maritima*, the structure of a, 221
- O*- β -D-Fructofuranosyl-(2 → 1)-*O*- β -D-fructofuranosyl-(2 → 1)-D-fructose produced by the enzymic hydrolysis of the inulin from *Cichorium intybus*, isolation and identification of, 303
- Fructo-oligosaccharides from the stems of *Triticum aestivum*, 231
- D-Galacturonan digalacturonohydrolase of *Selenomonas ruminantium*, mechanism of action of, 269
- Gangliosides, a facile, systematic synthesis of ganglio-series: Total synthesis of gangliosides GM₁ and GD_{1a}, C13 (1 → 3)- β -D-Glucan, sulfated, water-soluble, biological response modifier derived from *Saccharomyces cerevisiae*, development of a, 247
- D-Glucosamines, new method for synthesis of N-alkyl- and N,N-dialkyl-, C5
- D-Glucosidases, use of ¹H NMR spectroscopy to determine the rate of hydrolysis of disaccharides by, 259
- Glucosylceramide, synthesis of 4-C-methyl analogues of, 151
- D-Glucuronic acid, on the characterization of the reaction of organotin compounds with, 41
- N-Glycopeptides, Fmoc-protected, glycosylated asparagines potentially useful as reagents in the solid-phase synthesis of N-glycopeptides, 83
- Glycoproteins, a study of possible sulfate loss during the chemical release of sulfated oligosaccharides from, C9
- Glycoproteins, sulfated sialyl-oligosaccharides, derived from tracheobronchial mucus of a patient suffering from cystic fibrosis, 179
- Glycosides of aranciamycinone (the aglycon of the naturally occurring antibiotic arancamycin), synthesis and collagenase inhibition of new, 141
- Glycosylated asparagines (Fmoc-protected) potentially useful as reagents in the solid-phase synthesis of N-glycopeptides, 83
- (GPI) Glycosyl phosphatidylinositol anchor of *Trypanosoma brucei*, stereoselective total synthesis of the, 95
- GM₁ and GD_{1a}, a total synthesis of gangliosides: A facile, systematic synthesis of ganglio-series gangliosides, C13
- Hydrolysis of disaccharides, enzymic, use of ¹H NMR spectroscopy to determine the rate of, 259
- Inclusion of the anti-cancer drug mitoxantrone in cyclomaltooligosaccharides as seen by ¹H NMR, C1
- Inulin from *Cichorium intybus*, isolation and identification of *O*- β -D-fructofuranosyl-(2 → 1)-*O*-D-fructofuranosyl-(2 → 1)-D-fructose produced by the enzymic hydrolysis of the, 303
- Liposome surface, quantitative analysis of carboxymethyl chitin on a, 239
- D-Lyxose, new synthesis of, 281
- D-Mannose 6-phosphate and other hexoses 6-phosphates, large scale synthesis, 115
- Mechanism of action of D-galacturonan digalacturonohydrolase of *Selenomonas ruminantium*, 269
- 4-C-Methyl analogues of glucosylceramide, synthesis of, 151
- Methyl 2,3-anhydro-D-manno- and -allopyranoside p-bromobenzyl ethers, synthesis, crystalline structure, conformational analysis, and azidolysis, 163
- Migration of alkylthio groups during the synthesis of thioglycoside 2,3-orthoesters, a simple method for avoiding, 295
- Molecular mechanics, conformational analysis of β -D-fructofuranosyl-(2 → 6)- β -D-glucopyranoside by, 1
- Nitro derivative, synthesis of N-acetyl-lactosamine via ozonolysis of a, 289
- NMR database computer program for the analysis of the primary structure of complex carbohydrates, a ¹H, 53
- NMR identification of *O*- β -D-fructofuranosyl-(2 → 1)-*O*- β -D-fructofuranosyl-(2 → 1)-D-fructose produced by the enzymic hydrolysis of the inulin from *Cichorium intybus*, 303
- ¹H NMR investigations of the inclusion of the anticancer drug mitoxantrone in cyclomaltooligosaccharides, C1
- NMR spectroscopy, ¹³C CP MAS, of the transformations of wheat starch associated with the making and staling of bread, observation by, 15
- NMR study of oligosaccharides from human milk, application of the computer program CASPER in a ¹H and ¹³C, 69
- Oligosaccharides containing fructose, isolation from wheat stems, 231
- Oligosaccharides from glycoproteins, a study of possible sulfate loss during the chemical release of sulfated, C9

- Oligosaccharides from human milk, a ^1H and ^{13}H NMR study and application of the computer program CASPER, 69
- Organotin compounds with D-glucuronic acid, on the characterization of the reaction of, 41
- Ozonolysis of a nitro derivative, synthesis of *N*-acetyl-lactosamine via, 289
- Phosphatidylinositol (GPI) anchor, stereoselective total synthesis of the glycosyl, of *Trypanosoma brucei*, 95
- Polysaccharide of *Escherichia coli* O9:K35:H $^-$, structure of the capsular, 211
- Polysaccharide of *Proteus penneri* 62 containing *N*-acetylisomuramic acid, structure of the O-specific, C19
- Proteus penneri* 62, structure of the O-specific polysaccharide of, containing *N*-acetyl-isomuramic acid, C19
- α -L-Rhamnopyranosides, partially acylated 1-thio-, improved synthesis, 295
- D-Ribose, new synthesis of, 281
- Selenomonas ruminantium*, mechanism of action of D-galacturonan digalacturonohydrolase of, 269
- Sialyl-oligosaccharides, sulfated, derived from tracheobronchial mucous glycoproteins of a patient suffering from cystic fibrosis, 179
- Sinistrin from *Urginea maritima*, the structure of the fructan, 221
- Starch, wheat, associated with the making and staling of bread, observation by ^{13}C CP MAS NMR spectroscopy of the transformations of, 15
- Sulfated sialyl-oligosaccharides derived from tracheobronchial mucous glycoproteins of a patient suffering from cystic fibrosis, 179
- Sulfate loss during the chemical release of sulfated oligosaccharides from glycoproteins, a study of possible, C9
- Synthesis of a cycloheptaose consisting of (1 \rightarrow 4)-linked 7-amino-6,7-dideoxy- α -D-glucohexopyranosyl units: A new analog of cyclo-maltoheptaose, 129
- Synthesis of 4-C-methyl analogues of glucosylceramide, 151
- Triticum aestivum*, fructo-oligosaccharides from the stems of, 231
- Trypanosoma brucei*, stereoselective total synthesis of the glycosyl phosphatidylinositol (GPI) anchor of, 95
- Urginea maritima*, the structure of the fructan sinistrin from, 221
- X-ray fibre diffraction studies of chitosan and chitosan gels, 23
- D-Xylose, new synthesis of D-ribose and D-hxose from, 281